Fig. 7 is an explanatory diagram concerning an example of a method of determining a time constant and intensity of afterglow implemented in the second embodiment of the present invention (second embodiment);

5   Figs. 8A to 8C are explanatory diagrams concerning a step response characteristic to be measured and stored and an impulse response characteristic to be estimated which are employed in the method mentioned in Fig. 7 (second embodiment); and

Fig. 9A shows a tomographic image produced without
10   afterglow correction and Fig. 9B shows a tomographic image produced with afterglow correction.

Best Mode for Carrying out the Invention

Referring to the drawings, embodiments of the present
15   invention will be described below.

(First Embodiment)

Referring to Fig. 1 to Fig. 5, the first embodiment of the present invention will be described below.

Fig. 2 shows an embodiment of an X-ray CT scanner in
20   accordance with the present invention including an afterglow correction means. Fig. 3 is an explanatory diagram showing an example of the configuration of an X-ray detector included in the X-ray CT scanner shown in Fig. 2. Fig. 4 is an explanatory diagram showing an example of the configuration of a central
25   processor included in the X-ray CT scanner shown in Fig. 2.